	Application No.	Application No. Applicant(s)	
Notice of Allowability	10/676,736	SHIM ET AL.	
	Examiner	Art Unit	
	Nitin Parekh	2811	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not include inication will be mailed in due	led course. THIS
1. This communication is responsive to <u>07-22-04</u> .			
2. ☑ The allowed claim(s) is/are <u>1,2,4-6 and 8-10</u> .			
3. \boxtimes The drawings filed on <u>30 September 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Applicatio	n No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet of the property of the sheet of the shee	on's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on th	in the Office action of ne drawings in the front (not th	e back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su Paper No./	formal Patent Application (PT ummary (PTO-413), Mail Date	⁻ O-152)
 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	08), 7. ⊠ Examiner's	Amendment/Comment Statement of Reasons for All	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 2, 4-6 and 8-10 are allowed.

Claims 3, 7 and 11-20 have been canceled.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
 - A. Cancel claims 3, 7 and 11-20.
 - B. Claim 1, line 1: Delete "comprising:" and insert --- "comprising steps of:"
 - C. Claim 1, line 5: Insert "wherein the step of supporting the interposer further comprises supporting the interposer on a metallic stiffener having a plurality of legs contacting the substrate and supporting the metallic stiffener on the substrate;" — between "substrate" and "and".
 - D. Claim 4, line 1: Delete "claim 3" and insert --- "claim 1".
 - E. Claim 5, line 1: Delete "claim 3" and insert --- "claim 1".
 - F. Claim 6, line 1: Delete "comprising:" and insert --- "comprising steps of:"
 - G. Claim 6, line 5: Insert "wherein the step of supporting the interposer further comprises supporting the interposer on a plane on the metallic stiffener, the metallic stiffener having a plurality of legs contacting the

substrate and supporting the metallic stiffener on the substrate," — at the end of line 5 after "substrate".

- H. Claim 8, line 1: Delete "claim 7" and insert --- "claim 6".
- I. Claim 9, line 1: Delete "claim 7" and insert "claim 6".

Authorization for this examiner's amendment was given in a telephone interview with Mikio Ishimaru on 10-15-04.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The references of record do not teach either singularly or in combination at least the limitations "supporting an interposer above the first semiconductor device opposite the substrate; electrically connecting the interposer to the substrate; wherein the step of supporting the interposer further comprises supporting the interposer on a metallic stiffener having a plurality of legs contacting the substrate and supporting the metallic stiffener on the substrate" in a method of fabricating a stacked package having a first semiconductor device on a substrate, an interposer above the first semiconductor device and a second semiconductor device on the interposer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

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preferably accompany the issue fee. Such submissions should be clearly labeled

"Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. References A and B are cited as being related to stacked

devices.

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Nitin Parekh whose telephone number is 571-

272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax

phone number for the organization where this application or proceeding is

assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application

or proceeding should be directed to the receptionist whose telephone number is

703-308-0956

NP

NITIN PAREKH

10-15-04

PATENT EXAMINER

TECHNOLOGY CENTER 2800